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TITLE : HYBRID POWER SUPPLY OBTAINED BY COMBINING FUEL CELL WITH
SECONDARY BATTERY

ABSTRACT : PURPOSE: To make a fuel cell and a secondary battery compact by housing them in the same power supply case and to keep the secondary battery warm by driving an auxiliary device using the output of the secondary battery while the fuel cell is being started and by effectively using the waste heat while the fuel cell is being operated.

CONSTITUTION: The drive motor and control system of a golf cart is a generation source of noises. The effect caused by these noises can be reduced by housing a fuel cell and a secondary battery in the same case. In addition, a golf cart can be driven by driving an auxiliary device while the fuel cell is being started by means of the output of the secondary battery even if the start of the fuel cell is not terminated and the fuel cell can be started simultaneously while the golf cart is running. Furthermore, the golf cart may sometimes be used at low temperatures near 0°C. In such a case, the output of the secondary battery can be obtained stably under low temperature environment by keeping the secondary battery warm with the waste heat of the fuel cell.

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